This project involves the installation of a new Traffic Control Signal with street lighting and interconnect at the intersection of in MD 246 and Westbury Blvd / Carver School Blvd St. Mary's County. Advance Hazard Identification Beacons shall be placed along the east and west legs of MD 246. MD 246 is assumed to run an east-west direction. Video detection shall be used on the side streets and for main line left turns.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 246 approaches running concurrently. Exclusive/Permissive left turn phases shall be provided for both approaches of MD 246. A pedestrian phase with pushbutton actuation shall be provided across the west leg of MD 246. The pedestrian phases across Westbury Blvd / Carver School Blvd shall be on recall. The Westbury Blvd / Carver School Blvd approaches shall operate as a minor street split phase..
- 2. A full-traffic-actuated, eight-phase controller with one(1) four channel, rack mount loop detector amplifier, video interface equipment, service utility equipment and all other necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.

pole mounted

pole mounted

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GUIDE SHIELD ASSEMBLY
(48"x75") pole mounted.
M3-2 "EAST"(30"X15")
M1-5 "MD 246"(48"X36")
M6-1 "left arrow"(30"X24")

GUIDE SHIELD ASSEMBLY
(30"x51") pole mounted.
M3-4 "WEST"(24"X12")
M1-5 "MD 246"(30"X24")
M6-1 "right arrow"(21"X15")

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2.	All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787–7650 seventy—two hours in advance of intended work.							
· .	All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.							
	Α.	EQUIPMENT LIST EQUIPMENT TO BE SUPPLIED BY S.H.A						
	ITEM	DECCRIPTION	ALLANT LTV					
	NO. 9001	DESCRIPTION Detector rack power supply (To be installed by SHA forces)	QUANTITY 1 EA					
	9012	2-circuit flasher unit and time base unit with a dimmer switch	2 EA					
	9016	Detector amplifier 4-channel rack mount. (to be installed by signal shop)	1 EA					
	9037	Cabinet "G" type - pole mount	2 EA					
	9042	Controller ASC II with telemetry	1 EA					
	9044	Controller cabinet, size "6" - base mount	1 EA					
	9086	Video detection interface						
	3000	equipment: 1-4 cameras (To be installed by signal shop).	1 EA					
	9570	Sheet aluminum signs to consist of: (ground mount)	18 SF					
		W3-3 NEW "SIGNAL AHEAD" sign. (36" x 36") ground mounted with hardware.	2 EA					
	9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	22 5 F					
		D3-2 "(arrow) Westbury BLVD / Carver School BLVD (arrow)" (variable x 32") mast arm mounted	1 EA					
		D3-2 "(arrow) Carver School BLVD / Westbury BLVD (arrow)" (variable x 32") mast arm mounted	1 EA					
		D3-2 "Great Mills RD" sign. (variable x 16") mast arm mount.	2 EA					
		R2-1"SPEED LIMIT 40 MPH" (30"X24") pole mounted	2 EA					
		R10—12 "LEFT TURN YIELD ON GREEN (BALL)" sign. (36" x 42") mast arm mount.	2 EA					
		R3-6 "LEFT TURN AND THRU" sign. (30" × 36") mast arm mount.	1 EA					
		R3-5L "LEFT TURN ONLY" sign. (30" x 36") mast arm mount.	1 EA					
		S1-1A "SCHOOL CROSSING AHEAD (SYMBOLIC) (36" x 36") pole mounted	2 EA					
		GUIDE SHIELD ASSEMBLY (48"x75") pole mounted. M3-4 "WEST"(30"X15") M1-5 "MD 246"(48"X36") M6-1 "left arrow"(30"X24") pole mounted	1 EA					
		GUIDE SHIELD ASSEMBLY (30"x51") pole mounted. M3-2 "EAST"(24"X12") M1-5 "MD 246"(30"X24") M6-1 "right arrow"(21"X15") pole mounted	1 EA					

1 EA

1 EA

	EQUIPMENT LIST (CONT.)			
В.	EQUIPMENT TO BE FURNISHED AND/OR INST.	ALLED BY	Y THE CONTRACTOR	В.
ITEM NO.	DESCRIPTION	QUAN	ГІТҮ	ITEM NO.
1001	Maintenance of traffic per assignment.	3	EA	8069
2001	Class 2 Excavation. INCL FOR SW REMOVAL	3.5	C.Y.	8070
2002	Test Pit Excavation	7	C.Y.	8071
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	620	L.F.	8072
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	140	L.F.	8074 8075
5008	Remove existing pavement markings - any width.	60	L.F.	8077
6001	Furnish and install depressed curb and gutter.	10	L.F.	8078
6002	Standard type A combination curb and gutter 12" gutter pan 8" depth.	50	L.F.	8079
6004	4" concrete sidewalk.	245	S.F.	8080
8001	Pre-manufactured camera to controller (250' length) cable	2	EA	8082
8003	Pre-manufactured camera to controller (500' length) cable	2	EA	8083
8006	Cut, clean, galvanize and cap traffic signal structure.	3	EA	
8010	Furnish and install 12" pedestrian signal head section	8	EA	8084
8011	Furnish and install 12" vehicular traffic signal head section	36	EA	8085
8013	Furnish and install 15' bracket arm for traffic signal structure.	1	EA	8086
8014	Furnish and install 250 watt HPS Luminaire with photocell.	1	EA	8091
8015	Furnish and install 3" weatherhead.	2	EA	
8016	Furnish and install 3M opticom #764 discrimination module-4 channel.	1	EA	8092 8093
8018	Furnish and install 3M opticom #721 detector eye	1	EA	81 4 5A
8019	Furnish and install 8" vehicular traffic signal head section.	12	EA	
8020	Furnish and install Control and Distribution Equipment for Signals	1	EA	

2 EA

2 EA

4 EA

1**98**0 L.F.

285 L.F.

30 L.F.

3500 L.F.

250 L.F.

16 C.Y.

35 L.F.

600 L.F.

210 L.F.

Furnish and install 27' mast arm 4 EA

pole and 50' mast arm.

pedestal pole (any size).

Pedestrian pushbutton and

CROSS GREAT MILLS RD".)

Furnish and install video

detector camera.

cable.

cable.

8044

Furnish and install breakaway

R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO

Furnish and install non-invasive probe set with 1000' lead-in

Furnish and install non-invasive probe set with 500' lead-in

Furnish and install 3" schedule

Furnish and install 4" schedule

Furnish and install 4" schedule

Furnish and install 4-conductor

Furnish and install concrete

Furnish and install wood sign supports 4" x 6".

Furnish and install 3" schedule

80 rigid polyvinyl chloride conduit – bored.

Furnish and install No. 6

AWG stranded bare copper

ground wire.

80 rigid polyvinyl chloride conduit – trenched

80 rigid polyvinyl chloride conduit - bored.

80 rigid polyvinyl chloride

Furnish and install 12-pair

communication cable, self-

supporting (overhead).

opticom detector cable.

for signal foundation.

conduit - trenched.

EQUIPMENT LIST (CONT.)

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTI	TY
8069	Metered service pedestal.	2	EA
8070	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	30	L.F.
8071	Furnish and install electrical cable 1-conductor No. 8 AWG — THHN/THWN.	60	L.F.
8072	Furnish and install electrical handhole.	16	EA
8074	Install ground mounted sign.	18	S.F.
8075	Install overhead sign.	225	S.F.
8077	Furnish and install 2 1/2" electrical conduit schedule 80 polyvinyl chloride – riser.	100	L.F.
8078	Furnish and install connector kit - Type 1.	2	EA
8079	Furnish and install connector kit – Type 2.	2	EA
8080	Furnish and install ground rod – 3/4" x 10'.	9	EA
8082	Furnish and install electrical cable – 2 conductor (No. 14 AWG).	335	L.F.
8083	Furnish and install electrical cable – 3 conductor (No. 14 AWG).	400	L.F.
8084	Furnish and install electrical cable – 5 conductor (No. 14 AWG).	510	L.F.
8085	Furnish and install electrical cable – 7 conductor (No. 14 AWG).	1930	L.F.
8086	Furnish and install tray cable – 2 conductor (No. 12 AWG).	265	L.F.
8091	Furnish and install 2" schedule 80 rigid polyvinyl chloride – trenched	25	L.F.
3092	Install controller and cabinet pole mount.	2	EA
3093	Install controller and cabinet base mount.	1	EA
31 4 5A	Furnish and install detectable warning surfaces Truncated Sati-Trax Mats	32	S.F.

The contact persons for District #5 are as follows:

Ms∙ Kim Tran Assistant District Engineer - Traffic Phone: (410) 841-1003

Mr. Charles George Assistant District Engineer – Maintenance Phone: (410) 841–1002

Mr. John Mays Assistant District Engineer – Utility Phone: (410) 841-1005

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

The power company representative is: Steve McGee of SMECO.





MD 246 @ WESTBURY BLVD./CARVER SCHOOL BLVD.

100 #: XLIOUEY-47M DRAWN BY: **ROB CICCHINI** 4294-**GI** 2 J ALLEN XX1065485 CHECKED BY:__ S.H.A. NO. SHEET NO. NONE SCALE: COUNTY: ST MARY'S T.I.M.S. NO. 3-18-04 DATE: 18024601.48 F838 LOG MILE: